

# Notice of Allowability

## Application No.

10/731,634

## Examiner

LECHI TRUONG

## Applicant(s)

SAWICKI ET AL.

## Art Unit

2194

### - The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 12/18/2007.
2. ☒ The allowed claim(s) is/are 5, 7-42 now renumbered as claims 1-37.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_.

/William Thomson/  
SPE 2100

**Allowance**

1. This is in responding to the amendment filed 12/18/2007

***Allowable Subject Matter***

2. Claims 5, 7-42 are allowed.
3. The following is an examiner's statement of reasons for allowance:

As to claim 5, the prior art as taught by Lee et al ( US. 2003/0145197) and Nussbaum et al ( US. 6,779,154 B1) do not teach on render obvious the limitations recited in claim 5 when taken in the context of the claims as a whole passing an object method to the software application for transforming an XML document, the method object including as a parameter a path to an XSLT transformation file for transforming the XML document according to the XSLT transformation file; determining if the data in the one or more XML elements is modifiable according to the XML schema ;identifying a location of the one or more XML elements in the document; and presenting one or more properties applied to the data by the XML schema, allowing the user to at least one of view and modify the one or more properties; and presenting an interface to the user allowing the user to engage the XML functionality, as recited in the independent claim 5. Moreover, evidence for modifying the prior art teachings by one of ordinary skill level in the art was not uncovered so as to result in the invention as recited in claim 5 above.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (571) 272 3767. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomson, William can be reached on (571) 272 3718. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIP. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIP system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

/Thomson D. William/

Supervisory Patent Examiner, Art Unit 2194

LeChi Truong

March 17, 2008

**Examiner's Amendment**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Frank J. Bozzo (Registration number: 36,756), on 1/29/2008.
3. Amend the following claims:

**CLAIMS**

1. – 4. (Canceled).

5. (Currently Amended) A method for programmatically accessing the functionality of an Extensible Markup Language (XML) capable software application, comprising:

accessing a document, the document being configured to include one or more XML elements;

calling ~~a~~ the software application via an object-oriented message call;

passing an object property to the software application, the object property being associated with XML functionality of the software application, and passing the object property to the software application includes passing an object method to the software application for transforming an XML document, the method object including as a parameter a path to an XSLT transformation file for transforming the XML document according to the XSLT transformation file; and

in response to the message call and the object property passed to the software application, receiving access to the XML functionality of the software application associated with the object property passed to the software application, the XML functionality including a plurality of functions, each of the functions being selectively accessed based on at least one of the message call and the object property, the functions including:

validating data included in the one or more XML elements according to an XML schema associated with the document;

determining if the data in the one or more XML elements is modifiable according to the XML schema;

identifying a location of the one or more XML elements in the document;

using a message call for inserting the XML element into a location within the document;

and presenting one or more properties applied to the data by the XML schema, allowing the user to at least one of view and modify the one or more properties; and presenting an interface to the user allowing the user to engage the XML functionality.

6. (Canceled).
7. (Currently Amended) The method of claim 5 ~~claim 6~~, whereby the method object passed to the software application further includes a parameter indicating whether the XSLT transformation file is to be applied to all data contained in the XML file or whether the XSLT transformation file is to be applied to only non-native XML markup data applied to the XML document.
8. (Original) The method of claim 5, whereby passing the object property to the software application includes passing an object property to the software application for controlling the appearance of an associated schema file text when an XML element associated with the schema file text is to be presented in the software application's user interface.
9. (Original) The method of claim 5, whereby passing the object property to the software application includes passing an object property for controlling how the software application saves XML markup applied to a document.
10. (Original) The method of claim 5, whereby passing the object property for controlling how the software application saves the XML markup applied to the document includes passing an object property for causing the software application to save the XML markup applied to the document according to the native XML

functionality of the software application without application of any XSLT transformation prior to saving the XML markup applied to the document.

11. (Original) The method of claim 5, whereby passing the object property to the software application includes passing an object property to the software application for causing the application to save only XML markup and associated data applied to the document.

12. (Original) The method of claim 5, whereby passing the object property to the software application includes passing an object property to the software application for causing the software application to apply and XSLT transformation to the XML markup and associated data applied to the document and any non-XML data contained in the document prior to saving the document.

13. (Original) The method of claim 5, whereby passing the object property to the software application includes passing the object property for causing the software application to apply the XSLT transformation to only the non-XML data contained in the document prior to saving the XML document.

14 (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for controlling the location

of an XSLT transformation to be applied by the software application to a document upon saving the document such that only the output of the XSLT transformation is saved.

15. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for controlling whether an XSLT transformation should automatically be applied to a document before the document is saved, such that only the results of the transformation are saved.

16. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for controlling whether XML markup applied to a document is displayed to the user along with text being edited by the user in a document.

17. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for controlling an appearance of an XML element name as a visible placeholder in a document where no data has been entered for the XML element.

18. (Original) The method of claim 5, whereby passing an object property to the software application includes passing a method property for inserting XML markup into a document at a specified location, whereby a text string associated



with the XML markup to be inserted and whereby any XSLT transformations to be applied to the inserted markup are passed as parameters to the method property.

19. (Original) The method of claim 5, whereby passing an object property to the software application includes passing a method object to the software application for creating an XML nodes collection object and for adding to the XML nodes collection object any new XML node objects, whereby a name for a new XML node object, a uniform resource identifier identifying a Namespace associated with a new XML node object, and a range pointer to a location in a document where the new XML node object is to be applied are passed to the software application as parameters of the method object.

20. (Original) The method of claim 19, whereby passing an object property to the software application includes passing a method object for accessing individual XML node objects contained in the collection of XML node objects, whereby an identification representing the position of a requested XML node object in a Namespace library is passed as a parameter of the method object.

21. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for returning a base name of a specified XML elements.

22. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for pointing to an XML nodes collection that consists of all XML elements that are child elements for a specified element.

23. (Original) The method of claim 5, whereby passing an object property to the software application includes passing a method property to the software application for copying a specified XML element and all data associated with the XML element for pasting to a separate location within a document.

24. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for copying an XML element and all data associated with the XML element and for removing the copied XML element and the copied data associated with the XML element from a document from which the XML element and the data associated with the XML element are copied.

25. (Original) The method of claim 5, whereby passing an object property to the software application includes passing a method property for removing a specified XML element from a document without affecting data associated with the XML element.

26. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for pointing to a first XML element that is a child element of a specified XML element.

27. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for indicating whether an XML element has any child elements that contain no associated data.

28. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for pointing to a last XML element that is a child element of a specified XML element.

29. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for indicating whether an XML element is at an inline level, a paragraph level, a table cell level, a table row level, a table level, or other levels supported by the software application.

30. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for returning the uniform resource identifier of an XML schema file associated with a specified XML element.

31. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for returning a pointer to an XML node that represents a next XML element immediately following a specified XML element.

32. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for indicating a type of an XML element, whereby the type of the XML element may include an XML element or an attribute of an XML element.

33. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for returning a pointer to a document containing a specified XML element.

34. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for returning a pointer to an XML element that is a parent XML element of a specified XML element.

35. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for controlling whether a placeholder text is displayed in place of XML elements applied to an XML element applied to a document when the XML element contains no associated data.

36. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for returning a pointer to an XML element that is a previous XML element before a specified XML element.

37. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for returning a pointer to a range in a document contained by a specified XML element.

38. (Original) The method of claim 5, whereby passing an object property to the software application includes passing a method property for removing an XML element that is a child XML element of a specified XML element, whereby a pointer to the child XML element is passed with the method object as a parameter.

39. (Original) The method of claim 5, whereby passing an object property to the software application includes passing a method property for finding all XML elements in a document that match a specified XPath query whereby an XML elements collection consisting of all XML elements matching the specified XPath query are returned.

40. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for returning as plain text any data entered into a document associated with a specified XML element.

41. (Original) The method of claim 5, whereby passing an object property to the software application includes passing an object property for returning an XML markup representation of a specified XML element and all data associated with the specified element.

42. (New) A computer-readable storage media storing instructions executable by a computing system for providing a programmable object model for an Extensible Markup Language (XML) capable application, comprising:

accessing a document, the document being configured to include one or more XML elements;

calling a the software application via an object-oriented message call;

passing an object property to the software application, the object property being associated with XML functionality of the software application, and passing the object property to the software application includes passing an object method to the software application for transforming an XML document, the method object including as a parameter a path to an XSLT transformation file for transforming the XML document according to the XSLT transformation file; and

in response to the message call and the object property passed to the software application, receiving access to the XML functionality of the software application associated with the object property passed to the software application, the XML functionality including a plurality of functions, each of the functions being selectively accessed based on at least one of the message call and the object property, the functions including:

- validating data included in the one or more XML elements according to an XML schema associated with the document;

- determining if the data in the one or more XML elements is modifiable according to the XML schema;

- identifying a location of the one or more XML elements in the document;

- using a message call for inserting the XML element into a location within the document;

- and presenting one or more properties applied to the data by the XML schema, allowing the user to at least one of view and modify the one or more properties; and presenting an interface to the user allowing the user to engage the XML functionality.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is ( 571) 272 3767. The examiner can normally be reached on 8 - 5.

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LeChi Truong

/Thomson D. William/

Supervisory Patent Examiner, Art Unit 2194

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